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An
Essay on Pertussis,
respectfully submitted to the
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of the
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for the
Degree of M.D.
Matthew Pryor of New Jersey.
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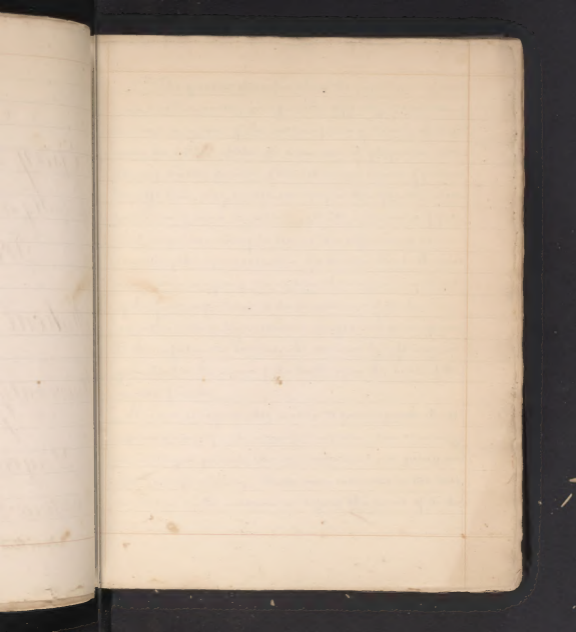
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The greatest obstacles which the practitioner of medicine has to encounter, arise from the difficulty of establishing a correct diagnosis of the various forms of disease which fall under his notice. Although a number of physicians entertaining similar opinions of the nature and causes of particular affections, may sometimes vary in their practice in some particulars of minor importance, yet all controversies of practical importance, may be traced to a difference of opinion respecting the nature or location of a disease. Hence the discrimination necessary to ascertain the diagnosis, is a faculty of the first importance to the practitioner of the healing art, without which, his medicines might well be compared to the unfortunate Trojans, who deceived by a flimsy disguise, hurled the terrors of the battle upon the heads of their devoted friends.

It is not always an easy matter to guard against the deceptive nature of certain symptoms, even when occurring in intelligent patients, who can understand our queries and give rational testimony. Much more intricate is the task to discover in the unconscious infant the cause of its dis-

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trials. When we reflect, therefore, on the numerous and injurious errors
 which have arisen from cases in which we have enjoyed every
 advantage that could be derived from conversation with the suffering
 individuals, we must acknowledge that the diseases of young children,
 although not generally so insuperable as many of those which occur in adu-
 led life, require a great degree of caution and sagacity to ascertain their na-
 ture and apply their appropriate remedies. Hydrocephalus the insidious
 enemy of our species, which ranks so high among the allegorical ministers
 of the Court of Death, is a good example by which to enforce these remarks.

How often is its devoted victim drenched with anthelminthic decoctions,
 with no other effect than to weaken the confidence of the practitioner in this
 class of remedies, while his patient sinks prematurely to the tomb!

But it is unnecessary to adduce instances exemplary of the great
 importance of peculiar skill, minute investigation and unpreju-
 diced decision, in the treatment of the diseases of children. I hope,
 therefore that if in the following treatise on a disease most pre-
 valent at the earlier periods of our existence, instances of unsuccess-
 any minutiae occur, they will be attributed to at least a desire
 of being useful.

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Pertussis is defined to be a convulsive cough, interrupted by a full and sonorous inspiration and terminating in a vomiting, or an expectoration of phlegm.

The history of pertussis is obscure; some of the older writers have supposed that it originated in Africa, whence it was translated into Europe. It has for a long time, however, been known in the latter country and it does not appear that its original reference to Africa is any thing more than conjecture, promulgated, perhaps, by the advocates of its contagious nature, who would rather avail themselves of the obscurity of its history than acknowledge its spontaneous origin.

It is alleged to be one of those diseases which attack the human constitution but once and being ^{more} prevalent among children than adults: hence another argument has been drawn in favour of its being specifically contagious. There are some instances however where the disease has been taken twice in the course of life. Dr Chapman relates two cases of this kind, one of an elderly lady and another of an elderly gentleman both of whom were affected with it in early life - and during the last summer I witnessed the same in a gentleman who grad

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Two specimens of *Lat. m.* could be taken swimming in the insulated confinement of a good aquarium in a child's cradle. The specimens to be taken at the excited water temperatures of the parent's doubtful and tired depths.

① 第一

noted in this university last April; he assured me that he perfectly remembered having had the disease very severely about twelve years ago.

Two opinions still exist respecting the cause of pertussis. ~ It may be communicated from one individual to another, cannot be positively denied, when we consider the current of testimony in support of it, and that it ^{also} arises in an individual not communicated from the rest of the species, or satisfactorily accounted for by any opinion, and on which I am supported by good authority. One instance has fallen under my own observation which is very convincing on this point; it occurred in a child on a farm remote from all the principal public roads. The child had not been to a neighbouring for three months previous to the accession of the disease, very few visitors had been at the house in that time and not another case of it existed within a circumference of at least five miles; in short, the parents could not assign a cause for its occurrence and doubted its being the disease until the more violent symptoms developed themselves too plainly to be mistaken.

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Hebden Fenner and many others to contend with; but the spontaneous appearance of the disease in a place remote from towns and in individuals who have not been exposed to intercourse with those who may have had a latent infection, led me quietly to acquiesce in their opinions. Then had I not seen a single case of the disease, occurring as I have stated, I trust that to be superseded by the writings of Dr Lullien and Dr Hiley would be sufficient to shield me from the imputation of being presumptuous in opposing such weight of authority, as I have summarised.

Dr Lullien alleges that it is both "epidemic and contagious. From what we know of the laws which govern these two classes of diseases we must certainly differ from his opinion. We all know that those diseases which depend upon a specific contagion are never influenced by the action of the atmosphere, except as regards their degree of violence, being equally contagious in all situations.

Dr Hebden remarks, that Hooping cough evinces a tendency to unite with other diseases more than any with which he is acquainted, arising from specific contagion. I found it says
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he after being nearly lost in combination with one of the most powerful of the acanthemata, measles resist its force and extinguish the supervening disease. again, most of these diseases which arise from contagion are never taken but once whereas those of an epidemic character are liable to be taken so often as we are exposed to the causes which produce them. As I have already stated, the advocates of its contagious nature, ground their arguments partly on this head; but I trust that I can account for the phenomena of its being taken rarely a second time. We well know that many diseases which are epidemic as Plague, Yellow Fever &c. owing to the susceptibility being greatly increased, are not so easily taken a second time. May we not then suppose that perhaps we may be ~~more~~ affected by the same laws, only, losing that susceptibility to a greater extent than is common with other epidemics, and that where the disease is taken a second time it has been retained to a greater degree than is usual; owing to some peculiarity of constitution."

From the preceding remarks it must appear, that I am inclined to believe in the non-contagious nature of hooping cough.

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as the point however is not yet settled and some doubts still exist respecting it, I should if consulted on the subject by parents always place myself on the safe side of the question, and take the same precautions as I should were I to believe it a contagious disease.

There has been much difference of opinion respecting the true seat of pertussis and it was not until the treatise of Dr. Whitt^{appeared}, that we were in possession of a true knowledge of it. Willis supposed it to be seated in the breast, Harey in the stomach and Astruc, an inflammation of the larynx and Pharynx from indigestion or some other of the gastric affections. Dr. Wall, by a great many careful examinations post mortem, has ascertained that it is seated in the mucous membrane of the larynx, trachea, bronchiae and air cells of the lungs, and represents it as always being an inflammatory disease.

Pertussis is said to prove in children more fatal than in adults, which, I presume, can be accounted for in the following manner. Few children escape the disease and as it is one that does not often attack the same constitution a

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second time. It is rarely met with in adults yet I have no doubt that the latter are equally susceptible of it and could we collect a number of persons who had escaped the disease in their infancy and place them in a situation where the disease prevailed, they would be found to take it as readily as children.

[illegible]

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dren, particularly, resembles the chattering of a quacker, as has been described by Dr Burns; in adults, however, it seems more to resemble a fit of violent laughing. At this time the arms of the arms are bent and extended with almost, often to such a degree as to produce hemorrhages from the eyes, nose and nose, and sometimes from the uterus.

Tetanus makes its attack more frequently at night, when the patient is in a recumbent posture. This can be accounted for, as in all convulsions, the basis of the cramps, by the decomposition to them, which such a posture naturally induces. Hence, the patient is at a much stronger and, in order to relieve himself, is obliged to start into an erect posture.

The disease is commonly attended throughout with fever, which, in the earlier of the disease, is very slight. The stomach is generally depressed, the appetite not very good, the bowels are almost always in a constipated condition; sometimes, I have seen a case where there was a diarrhoea existing in the commencement, which was stopped by means of the opi-
um given at night with the view of facilitating the surgery.

The alimentary canal in most cases contains a considerable

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table quantity of acid matter as is indicated in the discharges by vomiting and stool.

Respecting the state of the pulse, many attempts have been made to describe it, but no ~~one~~ description will answer as a general guide. Dr Ferriar, in his medical histories, has remarked that the pulse is quick and frequent in the commencement but as the disease advances it becomes small and thrady. I am inclined to think that this is not always the case. I have seen cases where the pulse continued nearly natural throughout except when accelerated by the fits of coughing. This is more particularly the case where the subject of the disease is an adult, very young children, however, are an exception to this, and with them, Dr Ferriar's description is generally correct. Mostly, the pulse bears more or less of the inflammatory character from the commencement and continues full, quick and frequent until the disease begins to decline when with it, it abates generally.

The duration of hooping cough is commonly about nine weeks. three weeks in attaining its height, three weeks at its height and three weeks in abating. However, much depends

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upon the season of the year. It is a common opinion in the country that if the disease be taken in the fall it will not leave the patient untill the spring, or so long as cold weather lasts.

Treatments. When we are called to a patient labouring under this disease our first object is, if much arterial action exist, to reduce it by means of venesection. This, when the blood is natural and can move it, will be found highly beneficial, even when not much evidence of disease is present, but many practitioners hesitate to perform it, and the patient is ^{they} not allowed to resort to the use of purgatives. But when it is necessary, and the purgatives can be given, we must not let the hope of the child interfere with our practice. I believe will have considerable success with most children, in the early stage of the disease. It acts not only by reducing inflammation, but prevents the continuation of it. The large to the medium, are objects of no small importance in the treatment.

After having employed venesection, we are next to re-

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sort to emetics and purges with a view of clearing out the
 stomach of ~~the~~ ^{the} contents, in a violent way, but it is
 turns considerable quantities of foul and offensive mat-
 ter. Emetics not only assist in this, but by their diaphoret-
 ic and expectorant powers, prove a most valuable remedy.

The Iack Emetic has been given and answers very well,
 but a better emetic in this disease is a combination of
 white Vitriol and Spicacuanha. It was spoken of in the
 highest terms by Dr Keble, and almost my friend Keble
 it this day, gave it the preference. It is to be given
 two or three times a day, according to the nature of the
 case and ~~the~~ ^{the} dosing ~~is~~ ^{is} to be ~~in~~ ⁱⁿ the ~~case~~ ^{case} of the ~~case~~ ^{case}.

It is now recommended to give the same medicine
 in nauseating doses in the intervals, but the wine of Ip-
 ocar is said to be as good.

When we have irritated the stomach we must open
 the bowels; this is to be done with calomel, and they are
 afterwards to be kept in a reliable condition by the same
 medicine or castor oil.

When congestion takes place in the lungs we may de-

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rise seems to result from the application of Blisters, Lyes
or Leeches to the breast; the former, however, should not
be resorted to untill after inflammation has been prefer-
med and inflammatory action has subsided, for in al-
most every instance where this has not been attended to
they have been found entirely useless and in many cases
highly injurious.

Of the remedies which are adapted to the second stage
of the disease, we have a list, which to enumerate, would
swell this essay to too great an extent. I must therefore
content myself with selecting those only which are found
to be most efficacious.

The first which I am to notice is opium. Of the pa-
lative efficacy of this medicine as a palliative, there
is no doubt, and without it we should experience
the greatest difficulties in the management of pneumonia.
It calms irritation, moderates the violence of the heat
of the system and affords the greatest relief, particularly at
night. It may be administered either in the form of
Laudanum or purgative, but the best mode, in my

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opinion is a combination of the latter with antimonial wine. The proportions are thirty drops of Paregoric to ten or twelve of the antimonial wine, mixed with a little sugar and water: it is very pleasant, and few children will refuse to take it. This is a dose for a child a year and half old.

In young persons, a dry, febrile catarrh, arising from cold, is treated in the same manner, but the dose of Paregoric is not so great, and the antimonial wine is more diluted, being mixed with the same quantity of the liquor.

Most of the other narcotics have been used to answer a similar indication, but as they all act upon nearly the same principle, I shall only notice one or two of them which have been recommended by respectable authority.

Of these, the cinna appears to have attracted the most attention, and by Dr Butcher ^{was} pronounced to be a most valuable remedy, but the result of the trials made with it by many respectable practitioners, has terminated in a loss of confidence in its powers and that it is in every respect inferior to Opium.



There are several things to be done that the Atomium might be made as safe as possible from its being a nuclear reactor, a steel structure of great strength and resistance to corrosion, with the important addition that it should be made of steel, instead of iron.

Learning therefore the connection & interest to connect in
 one of the most interesting subjects, we have to connect
 with the same. As such, the Arabian
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in a room that is very quiet.

There is another recipe which is a common remedy for cholera, the basis of which is fetid, and it is the last I am to take notice of. The following is taken from the book "The Diseases of Children."

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That the alkalis are a valuable class of remedies, no one will deny but we cannot believe that any of them are justly entitled to the name of specific.

Before describing the Alkali I must say something of a new remedy in this disease, I have reference to a Sy which has only been used by Dr. Physics in the Cardalgia and gastric dysnia of dyspeptic patients. It is made as follows Take of best hick y ashes, 1 quart, of Lard, 1 lb. mix well, and upon them a quantity of water. The dose for an adult is a wine glass full.

When upon the stomachs, in a number of cases where I tested it, the Syrup was rejected but this Sy might probably possess some valuable properties as a remedy in this disease, and from the experiments made with it, by a graduate of this University from the South, his ideas are proved to be correct. The gentleman alluded to states that the dis

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case made its appearance among the negroes of a plantation and from the above hints was disposed to try this remedy, and in almost every instance ^{found} that it very soon effected a cure. For this fact I have no great motive authoritatively.

Quinine has been employed for some time as a remedy in fevers, and appears to have many advocates, particularly throughout New Jersey. I was lately told by one of the most respectable physicians in that state, that he has tried it in a number of cases and found in every instance that as soon as the system became affected by the disease, every symptom subsiding, the patient and in a few days the system was entirely restored. In the practice I have not been successful, but from the many attestations which I have seen of its efficacy, I should be disposed to make considerable use of it.

The tincture of Cantharides, when employed so as to produce a smarting inflammation, has been highly recommended and indeed I have seen more good resulting from its practice than any other with which I am acquainted.

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Many of the antispasmodics were at one time thought useful in Whooping cough, but there are now only two or three of them which have any claims to our attention. I allude to the castor, musk and asafoetida. The first of these medicines, although at one time praised very highly, is now falling into disrepute; but the two latter maintain a respectable standing among the physicians in this disease. The natural musk has been highly extolled but ^{it} is so extremely disagreeable that children are with great difficulty made to take it. The forms of administering it are in jelly, emulsion or infusion.

The artificial musk has been used with equal advantage and some practitioners think it even superior to the natural. The doses of the two kinds are nearly the same and they may be administered in similar formulas. The best mode, however, of prescribing the artificial musk is in form of Docton's Tincture, which is made of two ounces of alcohol to two drachms of the musk; of which, the dose for a child two years old, is four or five drops. The watery solution of asafoetida is consid-

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ned as a valuable remedy in this disease and is very much employed in this city. it is made by rubbing down two drams of the medicine in eight ounces of hot water, of which the dose is a table spoon full for a child four or five years old.

To this list of remedies for hooping cough might be ^{added} ~~added~~ some of the tonics, particularly the bark and arsenic. But as they are of not much importance compared with many of those which I have already enumerated, I think it is better to leave them entirely out.

The diet in hooping cough, as in all other inflammatory diseases, should consist principally, if not entirely, of vegetable food and great care should be taken that the patient is not exposed to the changes of the weather. Flannel should be worn next to the skin and after the inflammation has subsided, a removal to another part of the country will be found one of the most advantageous of our remedies.

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